GRADE AND TONNAGE MODEL OF SEDIMENT-HOSTED Au

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COMMENTS This model applies to the descriptive model for carbonate-hosted Au-Ag (Berger, 1986a) and supersedes the grade and tonnage model for that deposit type (Bagby and others, 1986). The change in the model name reflects the discovery of many deposits in siliceous shale and other noncarbonate host rocks and the reassignment of some silver-rich deposits to the distal disseminated Ag-Au type (that is, Hilltop, Candelaria, and Taylor); the few deposits remaining with reported silver grades are Alligator Ridge, Dee, and Standard. Other deposits in the original set were deemed atypical (Bald Mountain, Windfall, Giltedge, Tolman) or reclassified as other types (Atlanta and Florida Canyon—now considered hot spring Au). This model represents considerable refinement of the data used by Bagby and others (1986). Deposits where mineralization is known to be within 500 m of each other were combined. Most of the names listed in table 7 are property names that contain multiple zones or deposits. Well-known property names containing multiple deposits that are over 500 m apart, such as Jerritt Canyon, are listed individually with corresponding deposit names in parentheses. For some property names with multiple deposits, such as Marigold, only the well-explored deposits were included and are shown in parentheses. This model excludes deposits for which information on distances between discrete orebodies was not available at the time of the compilation (for example, Big Springs, Northumberland, and Tonkin Springs). The distribution of tonnages is significantly skewed toward larger tonnages because of the two very large deposits. No geologic reason has been found to distinguish these large deposits from the other deposits; however, these two deposits appear to be more thoroughly explored, both laterally and vertically, than most of the other deposits, suggesting that many of the other deposits will eventually be found to be much larger than now estimated. See appendix B for locality abbreviations. See introduction for explanation of the grade and tonnage model as shown in figures 11–13.

Table 7. Grades and tonnages of sediment-hosted Au deposits

[Tonnages in million metric tons; gold (Au) and silver (Ag) grades in grams per metric ton. Country and state abbreviations explained in app. B]

Name	Country	Tonnage	Au grade	Ag grade
Alligator Ridge	USNV	6.35	3.29	0.72
Austin	USNV	1.59	5.49	0
Bootstrap-Capstone	USNV	22.90	1.46	0
Bullion Monarch–Lantern	USNV	14.90	1.11	0
Carlin	USNV	32.85	4.11	0
Chimney Creek North	USNV	27.60	2.14	0
Chimney Creek South	USNV	53.00	2.4	0
Cortez	USNV	3.18	9.60	0
Dee	USNV	5.13	2.78	2.6
Emigrant Springs 1	USNV	10.44	.82	0
Emigrant Springs 2	USNV	3.60	1.37	0
Felix Canyon	USNV	.32	1.03	0
Getchell	USNV	13.97	6.65	0
Gold Acres	USNV	8.34	3.35	0
Gold Bar	USNV	3.95	2.87	0
Goldstone–Gold Ridge	USNV	6.75	3.4	0
Gold Quarry–Deep West–Maggie Creek	USNV	464.00	1.32	0
Goldstrike–Post-Deep Post–Blue Star–Genesis–Bobcat–North Star	USNV	306.62	2.89	0
Green Springs (C Pit)	USNV	1.1	2.1	0

Table 7. Grades and tonnages of sediment-hosted Au deposits—Continued

Name	Country	Tonnage	Au grade	Ag grade
Horse Canyon	USNV	4.54	3.43	0
Illipah	USNV	1.03	1.13	0
Jerritt Canyon (Bell mine)	USNV	15.40	7.06	0
Jerritt Canyon (Burns Basin)	USNV	3.67	5.11	0
Jerritt Canyon (Mill Creek)	USNV	1.00	5.80	0
Jerritt Canyon (Saval Canyon)	USNV	2.27	4.15	0
Jerritt Canyon (Winters Creek)	USNV	1.27	5.2	0
Jerritt Canyon (Wright Window)	USNV	1.18	3.26	0
Marigold (East Hill Zone)	USNV	6.65	.72	0
Marigold (8 South Zone)	USNV	4.5	2.91	0
Mercur	USUT	29.70	2.07	0
Nighthawk	USNV	4.35	1.2	0
Pete	USNV	14.29	1.03	0
Pinson	USNV	9.80	2.60	0
Preble	USNV	3.00	3.29	0
Rain-Gnome	USNV	22.95	1.76	0
South Bullion	USNV	18.14	.89	0
Southern Mining Zone	USNV	1.44	.65	0
Standard	USNV	.80	1.65	3.43
Tusc	USNV	18.80	1.20	0

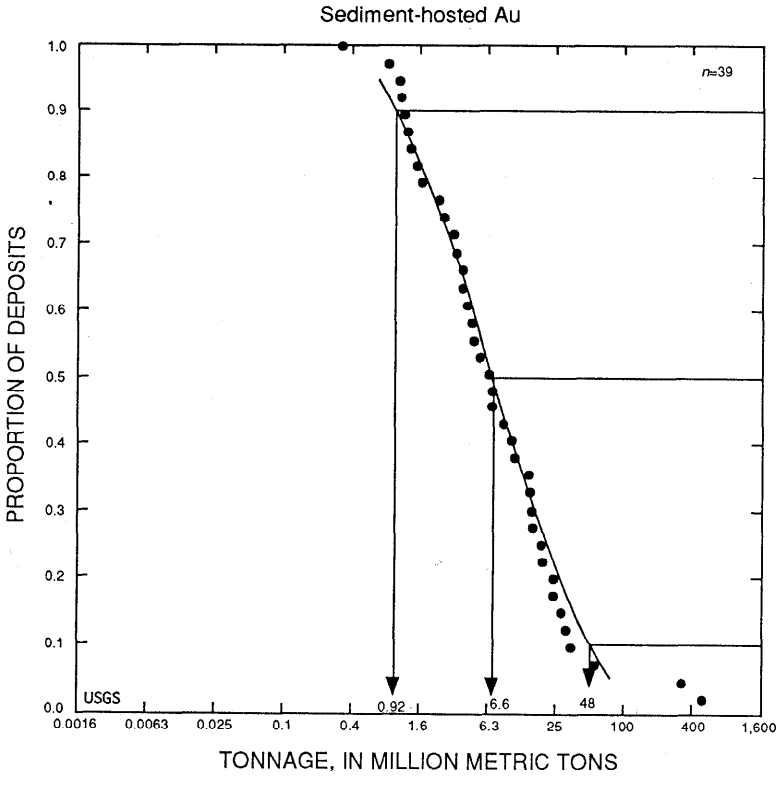

Figure 11. Tonnages of sediment-hosted Au deposits.

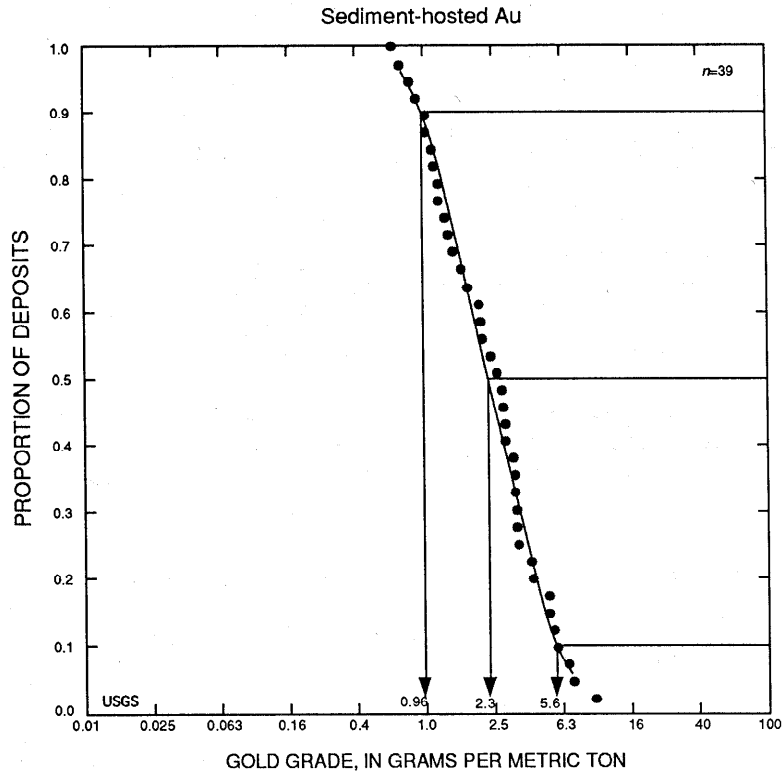

Figure 12. Gold grades of sediment-hosted Au deposits.

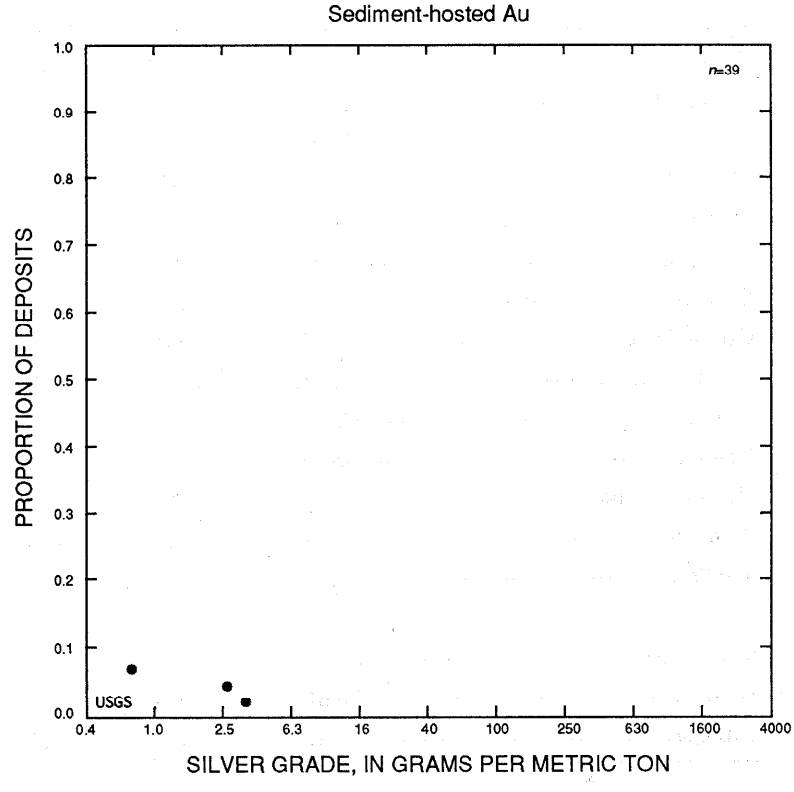

Figure 13. Silver grades of sediment-hosted Au deposits